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INVESTIGATION OF ERTS-A IMAGES FOR APPLICATION TO THEMATIC MAPPING

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(E73-10628)	INVESTIGATION OF ERTS-A	N73-24388
	IMAGES FOR APPLICATION TO THEMATIC	
	MAPPING Progress Report, 1 Mar. -	
1	30 Apr. 1973 (Geological Survey)	3 p HC
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Type I Progress Report for Period 1 March - 30 April 1973

Prepared for:

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Type I Progress Report
ERTS-A

- a. Title: Investigation of ERTS-A Images for Application to Thematic Mapping

ERTS-A Proposal No.: SR 116

- b. GSFC ID No. of P.I.: IN 385

- c. Problems:

Experimental effort has been hampered by inability to acquire time-critical imagery expeditiously.

- d. Accomplishments:

During this reporting period, the open water theme was extracted from March 31 cloud-free images acquired over the Mississippi River during flood. The extractions were isolated from MSS Band 7 at bulk scale. These extractions, along with those from images acquired on the May 4-5-6 orbits, will be enlarged to and gridded at 1:1,000,000 scale during the next reporting period to provide sequential-stage 1:1,000,000 mosaics of the flood area from St. Louis, Missouri south to the Gulf of Mexico.

- e. Significant scientific results:

Composite mosaics made of open water extractions of the Mississippi River at normal stage and those derived for various flood stages illustrate with startling clarity the magnitude of the recent flood and provide an excellent and timely historical documentation of the temporal changes in flood extent between successive cloud-free ERTS passes.

- f. Published articles and reports: None
- g. Recommended changes in operations: None
- h. Changes in standing order forms: None
- i. ERTS Image descriptive forms: N/A
- j. Changes in Data Request forms: None
- k. DCP status: N/A